

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A device, comprising:

a housing having a fixed portion and a moveable portion, wherein the fixed portion is adapted to be engaged to an arm of a linkage mechanism about a pivot point such that the fixed and moveable portions together rotate about the pivot point, the moveable portion configured to move laterally with respect to the fixed portion;

a flexure member coupled to the moveable portion and the fixed portion, wherein the flexure member is configured to allow selective movement of the moveable portion with respect to the fixed portion; and

an actuator coupled to the flexure member, the actuator configured to output haptic feedback to the moveable portion of the housing via the flexure member.

2. (Cancelled)

3. (Original) The device of claim 1, wherein the haptic feedback is output based on an oscillation of a shaft of the actuator.

4. (Previously Presented) The device of claim 1, wherein the flexure member includes a first flexure member and a second flexure member, the first flexure member and the second flexure member being coupled between the moveable portion and the fixed portion, the actuator being configured to output the haptic feedback via at least one of the flexure members.

5. (Original) The device of claim 1, further comprising a manipulandum disposed adjacent to the moveable portion, the haptic feedback being imparted to the manipulandum.
6. (Original) The device of claim 1, further comprising a manipulandum disposed adjacent to the moveable portion, the haptic feedback being imparted to the manipulandum, the manipulandum is fixed in position with reference to the moveable portion.
7. (Original) The device of claim 1, further comprising a button disposed adjacent to the moveable portion, the haptic feedback being imparted to the button.
8. (Original) The device of claim 1, further comprising a button movable in a degree of freedom disposed adjacent to the moveable portion, the haptic feedback being imparted to the button in the degree of freedom.
9. (Original) The device of claim 1, further comprising a sensor coupled to the housing, the sensor being configured to detect a movement of the moveable portion with respect to the fixed portion.
10. (Cancelled)
11. (Cancelled)
12. (Currently Amended) A device, comprising:

a housing adapted to be engaged to an arm of a linkage mechanism about a single pivot point, wherein the housing is rotatable with respect to the arm about the single pivot point;

a button disposed on the housing and depressible along a degree of freedom;

an actuator coupled to the button;

a sensor configured to detect a displacement of the button along the degree of freedom when depressed; and

a processor coupled to the actuator and configured to send a signal to the actuator based on the detected displacement, the actuator configured to generate a haptic feedback at least along the degree of freedom based on the signal.

13. (Original) The device of claim 12, wherein said actuator is a voice coil.

14. (Original) The device of claim 12, wherein the actuator includes a coil coupled to the button and a magnet coupled to a housing in which the button is disposed.

15. (Original) The device of claim 12, wherein the actuator includes a magnet coupled to the button and a coil coupled to a housing in which the button is disposed.

16. (Original) The device of claim 12, wherein the sensor is an analog sensor configured to output a position signal, the position signal associated with a position of the button.

17. (Original) The device of claim 12, wherein the haptic feedback includes a vibratory force produced as a function of time.

18. (Original) The device of claim 12, wherein the haptic feedback includes a spring force produced as a function of the displacement of the button.
19. (Original) The device of claim 12, wherein the haptic feedback includes a damping force produced as a function of a velocity of the button.
20. (Original) The device of claim 12, further comprising a flexure member coupled to the button and a housing in which the button is disposed.
21. (Cancelled)
22. (Original) The device of claim 12, further comprising:  
a housing, the button being disposed in the housing; and a trackball coupled to the housing, the trackball configured to control a position of a cursor in a display.
23. (Original) The device of claim 12, further comprising:  
a housing, the button disposed in the housing; and a joystick coupled to the housing, the joystick configured to control a position of a graphical object.
24. (Cancelled)
25. (Cancelled)

26. (Original) The device of claim 12, the actuator being a first actuator, the device further comprising a second actuator configured to output a vibration.
27. (Original) The device of claim 12, further comprising an isometric controller configured to control a position of a cursor in a graphical display.
28. (Currently Amended) The device of claim 1, wherein the fixed portion and the moveable portion are configured to engaged and manipulatable by one hand of a user.
29. (Previously Presented) The device of claim 1, further comprising a sensor coupled to the housing and configured to detect movement of the housing in at least four degrees of freedom with respect to ground.
30. (Currently Amended) The device of claim 1, wherein the housing is adapted to be coupled to [[a]] the linkage mechanism coupled to ground.
31. (Previously Presented) The device of claim 12, wherein button is integral to a housing having a fixed portion and a moveable portion, the fixed portion and the moveable portion configured to engaged by one hand of a user.
32. (Previously Presented) The device of claim 31, further comprising a sensor coupled to the housing and configured to detect movement of the housing in at least four degrees of freedom with respect to ground.

33. (Previously Presented) The device of claim 31, wherein the housing is adapted to be coupled to a linkage mechanism coupled to ground.

34-36. (Cancelled)

37. (Previously Presented) A device, comprising:

- a housing including a fixed portion and a moveable portion, wherein the fixed portion is rotatably coupled to a linkage mechanism, the moveable portion configured to be moved toward or away from the fixed portion;
- a first sensor coupled to the fixed portion of the housing and configured to provide sensor data regarding movement of the fixed portion of the housing with respect to ground;
- a second sensor coupled to the moveable portion and configured to provide sensor data regarding movement of the moveable portion of the housing with respect to the fixed portion of the housing; and
- an actuator coupled to the housing, the actuator configured to output haptic feedback to the moveable portion of the housing upon receiving a haptic feedback signal.

38. (Previously Presented) The device of claim 1, wherein the fixed portion is coupled to the linkage mechanism, wherein the fixed portion is at least rotatable with respect to the linkage mechanism.

39. (Previously Presented) The device of claim 12, wherein the fixed portion is coupled to the linkage mechanism, wherein the fixed portion is at least rotatable with respect to the linkage mechanism.